



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/US86/00476</p> <p>(22) International Filing Date: 6 March 1986 (06.03.86)</p> <p>(31) Priority Application Number: 708,746</p> <p>(32) Priority Date: 6 March 1985 (06.03.85)</p> <p>(33) Priority Country: US</p> <p>(71) Applicant: SCRIPPS CLINIC AND RESEARCH FOUNDATION [US/US]; 10666 North Torrey Pines Road, La Jolla, CA 92037 (US).</p> <p>(72) Inventors: MILICH, David ; 11591 Polaris, Mira Mesa, CA 92126 (US). CHISARI, Frank ; 1010 Crest Road, Del Mar, CA 92014 (US).</p> <p>(74) Agents: GAMSON, Edward, P.; Dressler, Goldsmith, Shore, Sutker &amp; Milnamow, Ltd., 1800 Prudential Plaza, Chicago, IL 60601 (US) et al.</p>		<p>(81) Designated States: AT (European patent), BE (European patent), CH (European patent), DE (European patent), FR (European patent), GB (European patent), IT (European patent), JP, LU (European patent), NL (European patent), SE (European patent).</p> <p>Published With international search report.</p>
<p>(54) Title: PROTEINACEOUS ANTIGENS WITH CONFORMATION-INDEPENDENT AND CONFORMATION-DEPENDENT DETERMINANTS</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div> <p>(a)</p> <p>% INHIBITION</p> <p>α-HB<sub>e</sub>/P34</p> <p>α-HB<sub>e</sub>/P25</p> <p>ANTI-HB<sub>e</sub> (Dilution)</p> </div> <div> <p>(b)</p> <p>% INHIBITION</p> <p>α-preS peptide</p> <p>α-S peptide</p> <p>ANTI-PEPTIDE (Dilution)</p> </div> </div> <p>(57) Abstract</p> <p>A single polypeptide antigen that includes the amino acid residue sequence and epitope of a conformation-independent antigenic determinant and the amino acid residue sequence but lacks the epitope of a conformation-dependent antigenic determinant and methods of its manufacture and use and articles of manufacture using the same. The uses of the pre-S(2) region polypeptide encoded by the hepatitis B virus genome as a T cell proliferating agent and as a potentiator for enhancing the humoral immune response of animals that exhibit a low humoral response to an S region-containing immunogen are also disclosed.</p>		